

# **Pharmacy Reengineering**

## **Medication Order Check Healthcare Application (MOCHA) Server**

**Version 1.1.01**

### **Installation Guide**



**September 2013**



## Revision History

Date	Version Number	Description of Revision	Author
09/12/2013	1.1	Added version number to the Title page, changed MOCHA Server version number in the footer from 1.1 to 1.1.01, changed the EAR filename and made formatting changes.	Pavani Mukthipudi (Enterprise Application Maintenance)
10/26/2012	1.0	Updated Title Page	Brian Holihan
08/27/2012	1.0	Removed FOD comments	Brian Holihan
08/21/2012	1.0	Updated formatting, minor text edits, internal cross-references.	Brian Holihan
03/01/2012	1.0	Initial draft of the Pharmacy Reengineering (PRE) Installation Plan for MOCHA SERVER build deployment on WebLogic Application Server.	Sachin Sharma

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# **1 Purpose**

The purpose of this Install guide is to provide instructions for the deployment of the PRE MOCHA Server application build on a WebLogic (application) Server.

The following instructions detail the steps required to perform an installation of a release for the MOCHA software when an existing release is already deployed. These steps assume a fresh installation has been completed, and there is an existing MOCHA Server Application up and running which will be replaced by the WebLogic Build.

This is a two-step process: first, remove the old release (build), and then deploy the new PRE MOCHA Server application build.

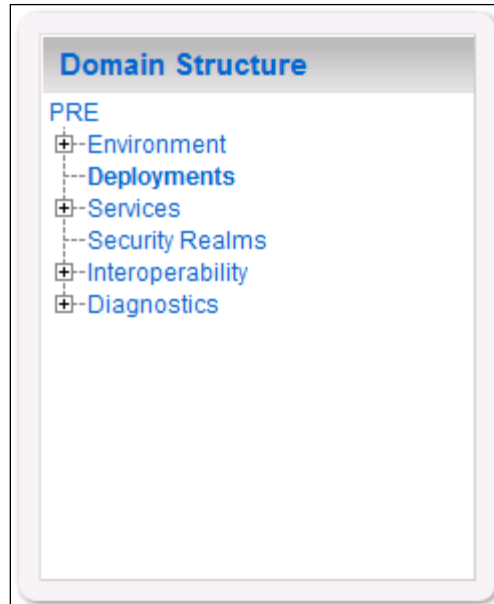
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## 2 Un-Deploy Old MOCHA Server Build

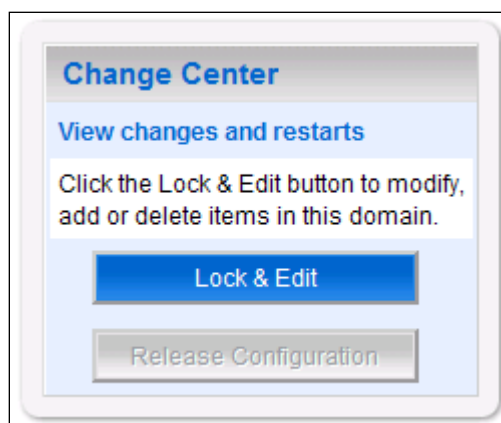
The following steps detail how to un-deploy the MOCHA Server build:

1. Open and log into the WebLogic console. This is located at: `http://<Deployment Machine>:7001/console`.
2. Within the `Domain Structure` panel in the left column of the WebLogic console, click the `Deployments` node. For reference, see Figure 2-1.



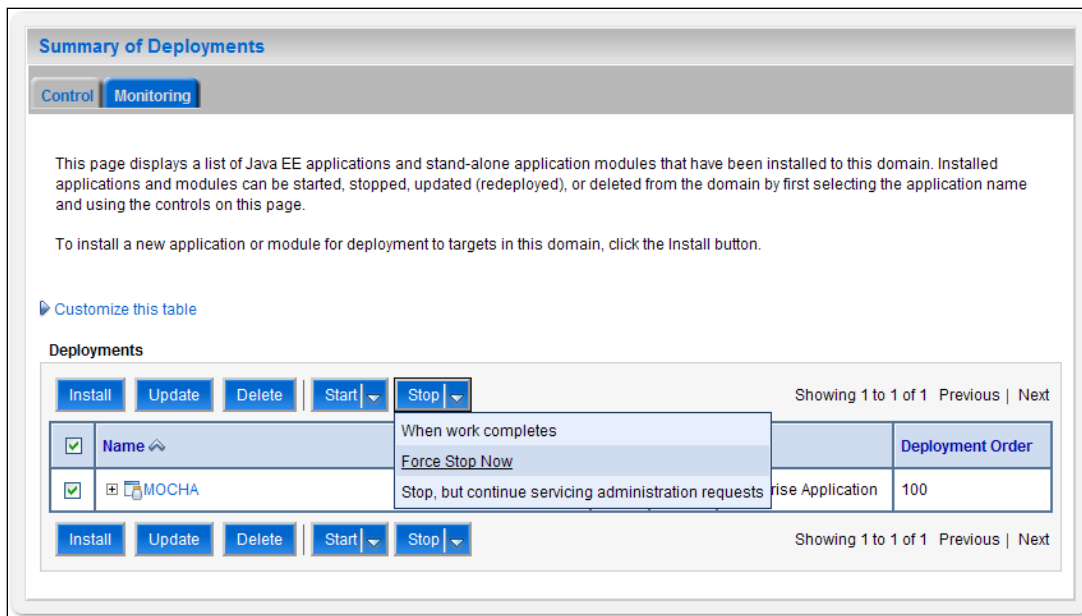
**Figure 2-1: Domain Structure**

3. Within the `Change Center` panel in the left column of the WebLogic console, click `Lock & Edit`. For reference, see Figure 2-2.



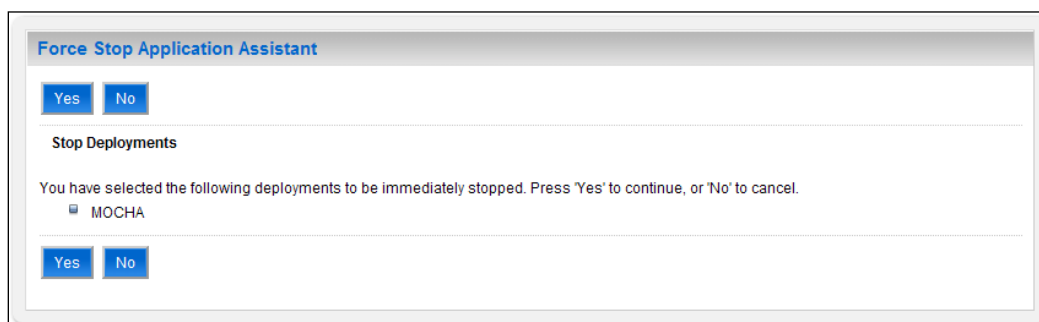
**Figure 2-2: Change Center**

4. WebLogic will now display the panel `Summary of Deployments` in the right column of the console, where all deployments for the WebLogic domain are listed. For reference, see Figure 2-3.



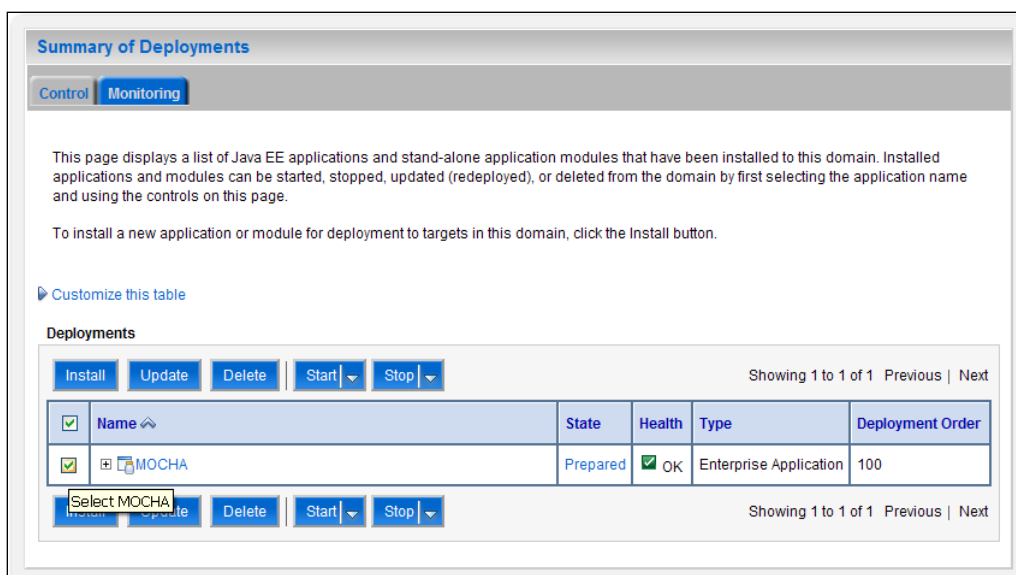
**Figure 2-3: Summary of Deployments – Stopping MOCHA**

5. Select the previously deployed MOCHA (Server) deployment, click **Stop**, and then select **Force Stop Now** from the drop-down list box.
6. WebLogic will now display the panel **Force Stop Application Assistant** in the right column of the console for confirmation to start servicing requests. For reference, see Figure 2-4: Force Stop Application Assistant.



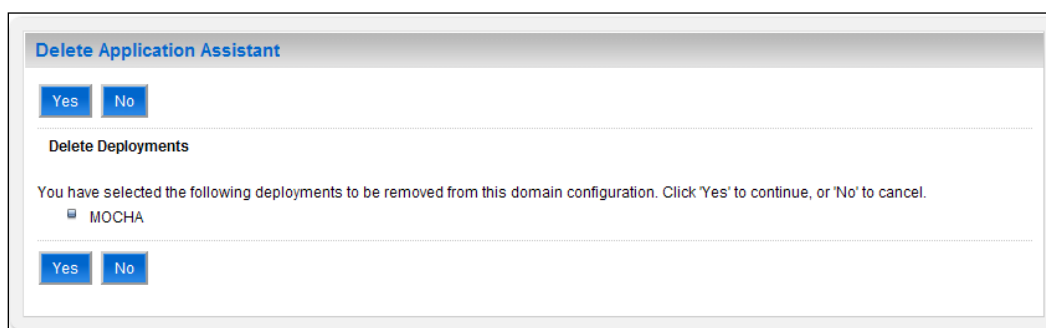
**Figure 2-4: Force Stop Application Assistant**

7. Click **Yes** in the Force Stop Application Assistant panel in the right column of the WebLogic console.
8. WebLogic now returns to the Summary of Deployments panel in the right column of the console. For reference, see Figure 2-5.



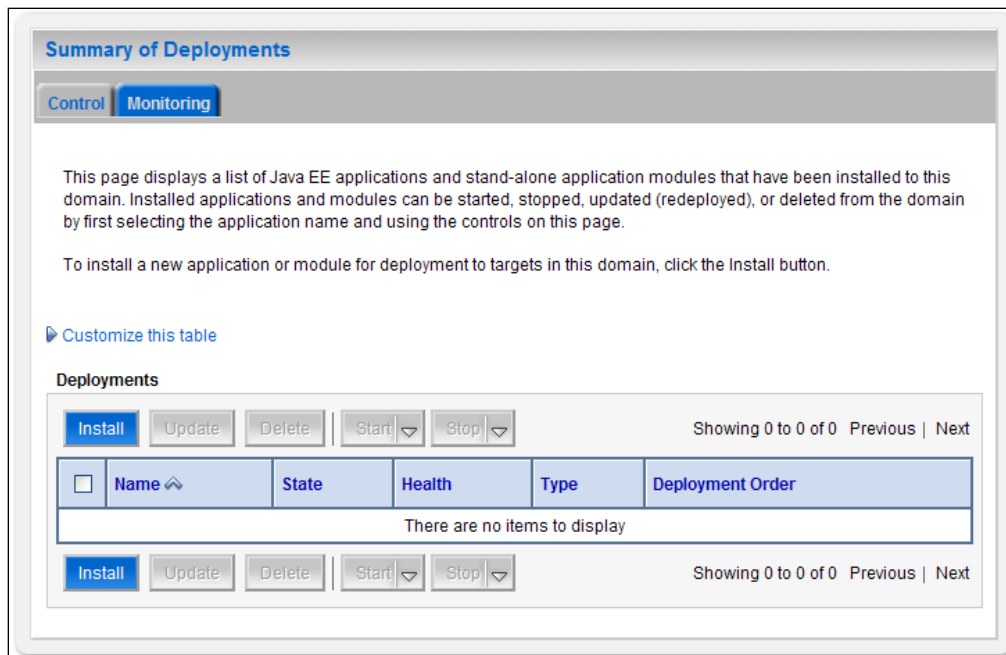
**Figure 2-5: Summary of Deployments – MOCHA Deployment Prepared**

9. Verify that the State of the MOCHA deployment is Prepared.
10. Select the previously deployed MOCHA deployment, and then click **Delete**.
11. WebLogic will now display the panel **Delete Application Assistant** in the right column of the console for confirmation to start servicing requests. For reference, see Figure 2-6.



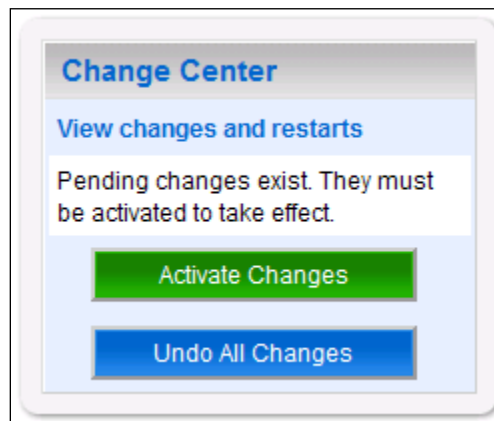
**Figure 2-6: Delete Application Assistant**

12. Click **Yes** in the **Delete Application Assistant** panel in the right column of the WebLogic console.
13. WebLogic now returns to the **Summary of Deployments** panel in the right column of the console. For reference, see Figure 2-7.



**Figure 2-7: Summary of Deployments – MOCHA Deployment Deleted**

14. Verify that the MOCHA deployment is deleted and no longer present.
15. Within the Change Center panel in the left column of the WebLogic console, click **Activate Changes**. For reference, see Figure 2-8.



**Figure 2-8: Activate Changes**

### 3 Deploy New MOCHA Server Build

The following steps detail the deployment of the MOCHA Server application Build on WebLogic application Server.

1. Open and log into the WebLogic console. This is located at: `http://<Deployment Machine>:7001/console`.
2. Within the Domain Structure panel in the left column of the WebLogic console, click the Deployments node. For reference, see Figure 3-1

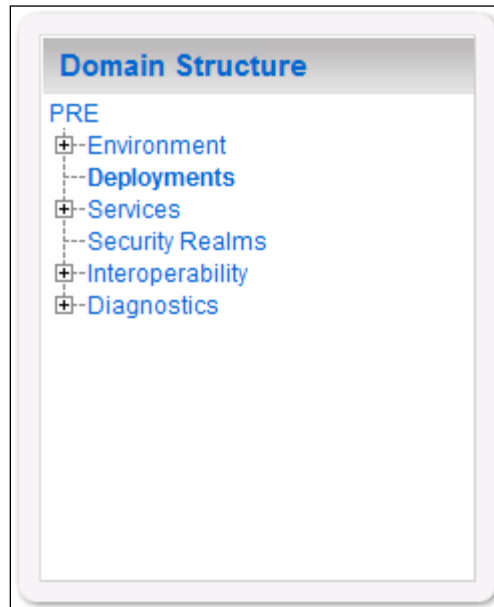


Figure 3-1: Domain Structure

3. Within the Change Center panel in the left column of the WebLogic console, click Lock & Edit. For reference, see Figure 3-2.

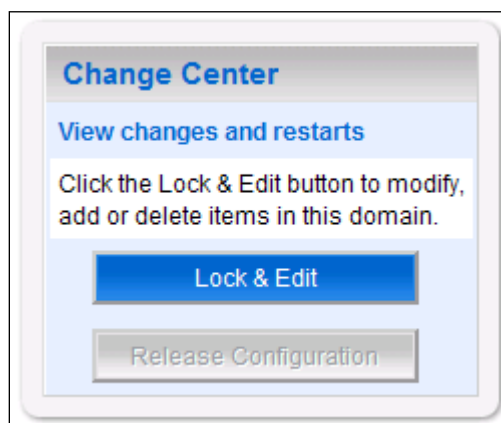
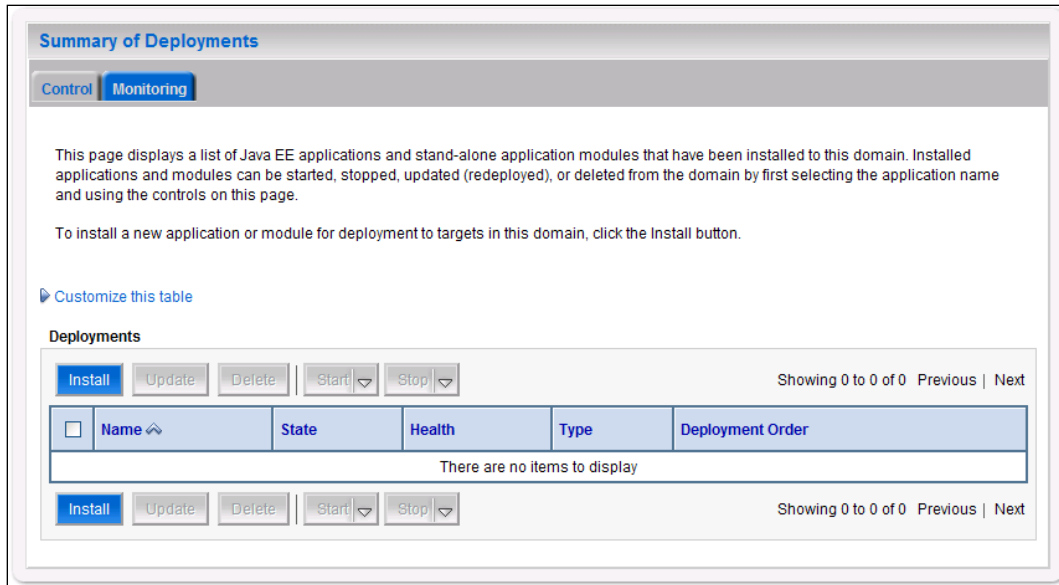


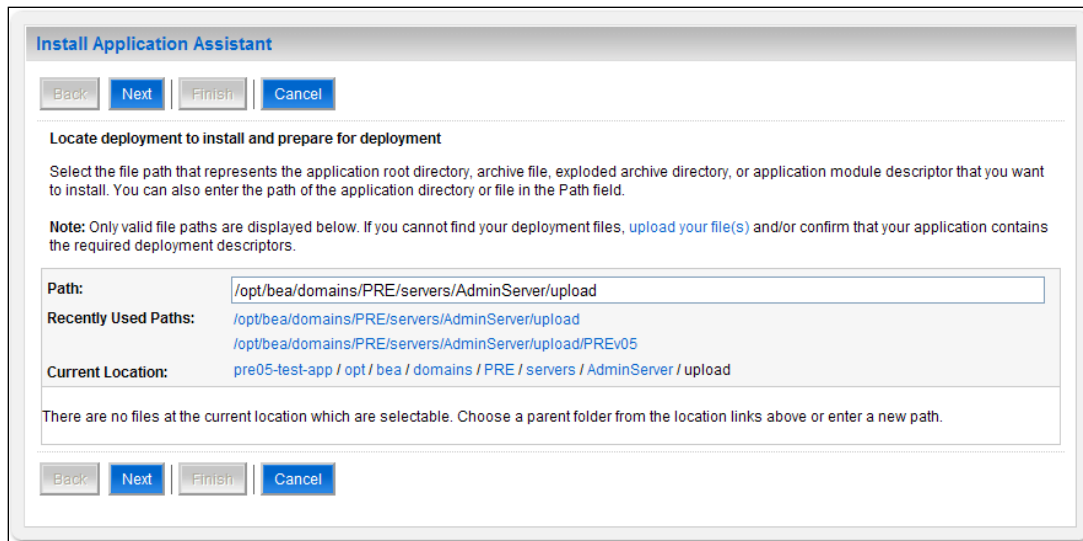
Figure 3-2: Change Center

4. Click Install found in the Deployments panel in the right column of the WebLogic console. For reference, see Figure 3-3.



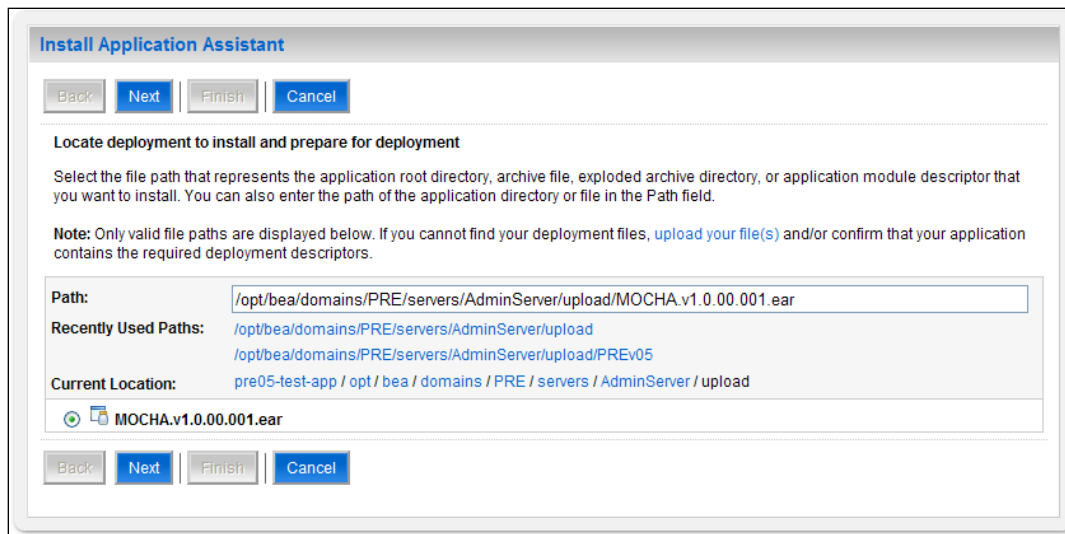
**Figure 3-3: Deployments**

5. WebLogic will now display the panel `Install Application Assistant` in the right column of the console, where the location of the MOCHA Server deployment will be found. For reference, see Figure 3-4.



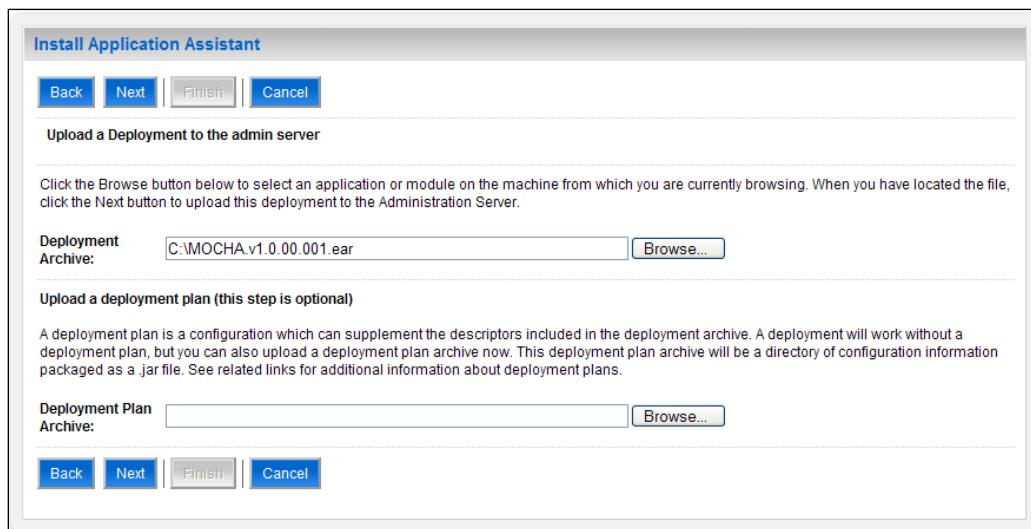
**Figure 3-4: Install Application Assistant**

6. Select the MOCHA deployment; select the MOCHA Server-> `mocha-server-1.1.01.1420.ear` file.
  - a) If the MOCHA Server build for deployment has already been transferred to the Deployment Machine, navigate to the deployment file location using the links and file structure displayed within the `Location` panel within the `Install Application Assistant` in the right column of the console. For reference, see Figure 3-5.



**Figure 3-5: Locate Deployment to Install and Prepare for Deployment**

- b) If the MOCHA Server build for deployment has not been transferred to the Deployment Machine:
  - (1) Click on the `upload your file(s)` link in the Install Application Assistant panel in the right section of the console. For reference, see Figure 3-5 **Error! Reference source not found.**
  - (2) Click the Deployment Archive Browse to see the Choose file dialogue used to select the Deployment Archive.
  - (3) Click Next in the Upload a Deployment to the admin server panel in the right column of the WebLogic console to return to the Locate deployment to install and prepare for deployment panel within the Install Application Assistant. For reference, see Figure 3-6.



**Figure 3-6: Upload a Deployment to the Admin Server**

7. Once the MOCHA Server build for deployment is located and selected, click **Next**.
8. WebLogic will now display the panel **Choose targeting style** within the **Install Application Assistant** in the right column of the console. Leave the default value selected, **Install this deployment as an application**, and click **Next**. For reference, see Figure 3-7 .

The screenshot shows the 'Install Application Assistant' dialog box with the title bar. Below the title bar are four buttons: 'Back', 'Next', 'Finish', and 'Cancel'. The main section is titled 'Choose targeting style' and contains the following text: 'Targets are the servers, clusters, and virtual hosts on which this deployment will run. There are several ways you can target an application.' Below this text are three radio button options: 'Install this deployment as an application' (which is selected), 'Install this deployment as a library', and 'Install this deployment as an application, but target the components individually'. Each option is followed by a brief description. At the bottom of the dialog are four buttons: 'Back', 'Next', 'Finish', and 'Cancel'.

**Figure 3-7: Choose Targeting Style**

9. Within the **Install Application Assistant** in the right column of the console, WebLogic will now display the panel **Select deployment targets**, where the **Deployment Server** will be selected as the target in the next step. For reference, see Figure 3-8.

The screenshot shows the 'Install Application Assistant' dialog box with the title bar. Below the title bar are four buttons: 'Back', 'Next', 'Finish', and 'Cancel'. The main section is titled 'Select deployment targets' and contains the following text: 'Select the servers and/or clusters to which you want to deploy this application. (You can reconfigure deployment targets later).' Below this text is the text 'Available targets for PREv05 :'. Below this text is a table with two rows. The first row is 'AdminServer' with an unchecked checkbox. The second row is 'LocalPharmacyServer' with a checked checkbox. At the bottom of the dialog are four buttons: 'Back', 'Next', 'Finish', and 'Cancel'.

**Figure 3-8: Select Deployment Targets**

**NOTE:** Select part of cluster and select mocha1, 2, 3,



10. For the Target, select the Deployment Server. For example, LocalPharmacyServer.
11. Click Next.
12. Within the Install Application Assistant, WebLogic will now display the panel Optional Settings in the right column of the console, where the name of the deployment and the copy behavior are chosen. For reference, see Figure 3-9 .

**Install Application Assistant**

Back Next Finish Cancel

**Optional Settings**

You can modify these settings or accept the defaults

**General**

What do you want to name this deployment?

Name: MOCHA

**Security**

What security model do you want to use with this application?

☒ DD Only: Use only roles and policies that are defined in the deployment descriptors.

☐ Custom Roles: Use roles that are defined in the Administration Console; use policies that are defined in the deployment descriptor.

☐ Custom Roles and Policies: Use only roles and policies that are defined in the Administration Console.

☐ Advanced: Use a custom model that you have configured on the realm's configuration page.

**Source accessibility**

How should the source files be made accessible?

☒ Use the defaults defined by the deployment's targets

Recommended selection.

☐ Copy this application onto every target for me

During deployment, the files will be copied automatically to the managed servers to which the application is targeted.

☐ I will make the deployment accessible from the following location

Location: /opt/boa/domains/PRE/servers/AdminServer/upload/MOC

Provide the location from where all targets will access this application's files. This is often a shared directory. You must ensure the application files exist in this location and that each target can reach the location.

Back Next Finish Cancel

**Figure 3-9: Optional Settings**

13. Enter the Name for the deployment. For example, MOCHA.
14. Verify that the following default option for Security is selected:  
DD Only: Use only roles and policies that are defined in the deployment descriptors.

15. Verify that the following default option for Source accessibility is selected:  
Use the defaults defined by the deployment's targets.
16. Click Next.
17. Within the Install Application Assistant in the right column of the console WebLogic will now display the panel Review your choices and click Finish, which summarizes the steps completed above. For reference, see Figure 3-10.

**Install Application Assistant**

Back Next Finish Cancel

**Review your choices and click Finish**

Click Finish to complete the deployment. This may take a few moments to complete.

**Additional configuration**

In order to work successfully, this application may require additional configuration. Do you want to review this application's configuration after completing this assistant?

☒ Yes, take me to the deployment's configuration screen.

☐ No, I will review the configuration later.

**Summary**

**Deployment:** /opt/boa/domains/PRE/servers/AdminServer/upload/MOCHA.v1.0.00.001.ear

**Name:** MOCHA

**Staging mode:** Use the defaults defined by the chosen targets

**Security Model:** DDOnly: Use only roles and policies that are defined in the deployment descriptors.

[Customize this table](#)

**Target Summary**

Components	Targets
MOCHA.v1.0.00.001.ear	LocalPharmacyServer

Back Next Finish Cancel

**Figure 3-10: Review Your Choices and Click Finish**

18. Verify that the values match those entered in Steps 6 through 17 and click Finish.
19. WebLogic will now display the panel Settings for MOCHA, in the right column of the console, where the values previously entered are available as well as a setting to change the deployment order. For reference, see Figure 3-11.

**Settings for MOCHA**

Overview | **Deployment Plan** | Configuration | Security | Targets | Control | Testing | Monitoring | Notes

[Save](#)

Use this page to view the general configuration of an Enterprise application, such as its name, the physical path to the application files, the associated deployment plan, and so on. The table at the end of the page lists the modules (such as Web applications and EJBs) that are contained in the Enterprise application. Click on the name of the module to view and update its configuration.

<b>Name:</b>	MOCHA	The name of this Enterprise Application. <a href="#">More Info...</a>
<b>Path:</b>	/opt/beam/domains/PRE/servers/AdminServer/upload/MOCHA_v1.0.00.001.ear	The path to the source of the deployable unit on the Administration Server. <a href="#">More Info...</a>
<b>Deployment Plan:</b>	(no plan specified)	The path to the deployment plan document on Administration Server. <a href="#">More Info...</a>
<b>Staging Mode:</b>	(not specified)	The mode that specifies whether a deployment's files are copied from a source on the Administration Server to the Managed Server's staging area during application preparation. <a href="#">More Info...</a>
<b>Security Model:</b>	DDOnly	The security model that is used to secure a deployed module. <a href="#">More Info...</a>
<b>Deployment Order:</b>	<input type="text" value="100"/>	An integer value that indicates when this unit is deployed, relative to other deployable units on a server, during startup. <a href="#">More Info...</a>
<b>Deployment Principal Name:</b>	<input type="text"/>	A string value that indicates what principal should be used when deploying the file or archive during startup and shutdown. This principal will be used to set the current subject when calling out into application code for interfaces such as ApplicationLifecycleListener. If no principal name is specified, then the anonymous principal will be used. <a href="#">More Info...</a>

[Save](#)

**Modules and Components**

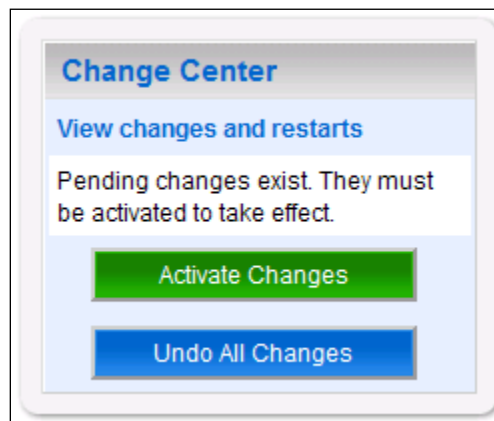
Showing 1 to 1 of 1 Previous | Next

Name	Type
MOCHA	Enterprise Application
EJBs	
DrugInfoServiceBean	EJB
OrderCheckServiceBean	EJB
Modules	
MOCHA	Web Application
MOCHA.jar	EJB Module
Web Services	
None to display	

Showing 1 to 1 of 1 Previous | Next

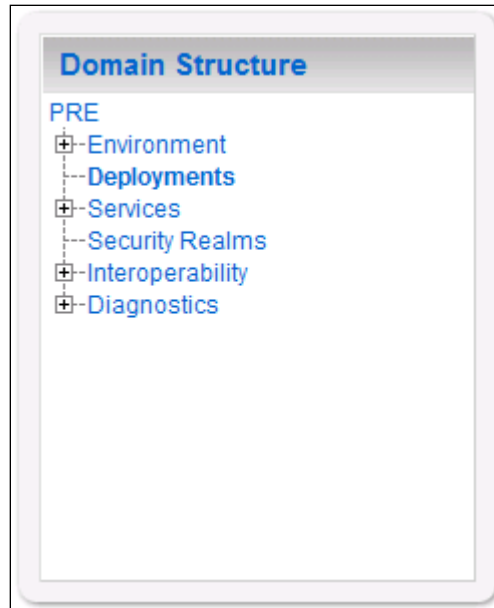
**Figure 3-11: Settings for MOCHA**

20. Leave all the values as defaulted by WebLogic and click **Save**.
21. Within the **Change Center** panel in the left column of the WebLogic console, click **Activate Changes**. For reference, see Figure 3-12.



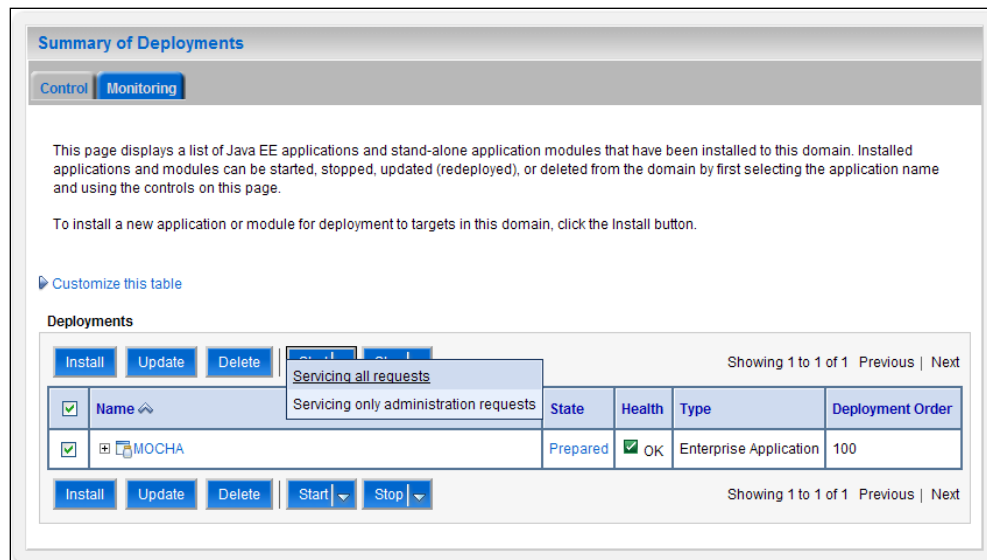
**Figure 3-12: Activate Changes**

22. Within the **Domain Structure** panel in the left column of the WebLogic console, click the **PRE > Deployments** node. For reference, see Figure 3-13.



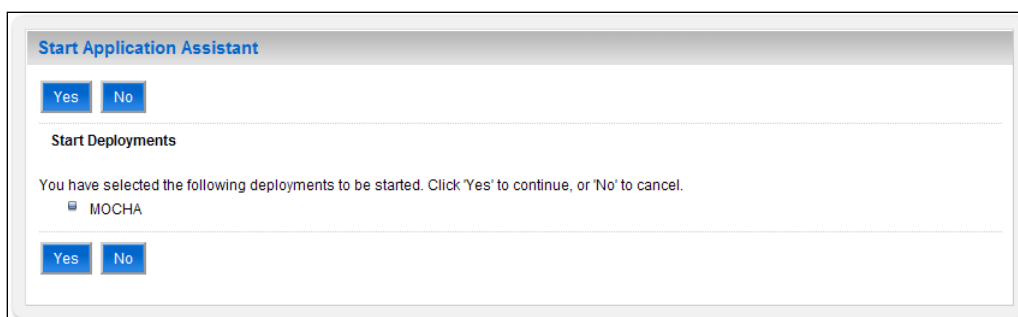
**Figure 3-13: Domain Structure**

23. WebLogic will now display the panel Summary of Deployments in the right column of the console, where all deployments for the WebLogic domain are listed. For reference, see Figure 3-14.



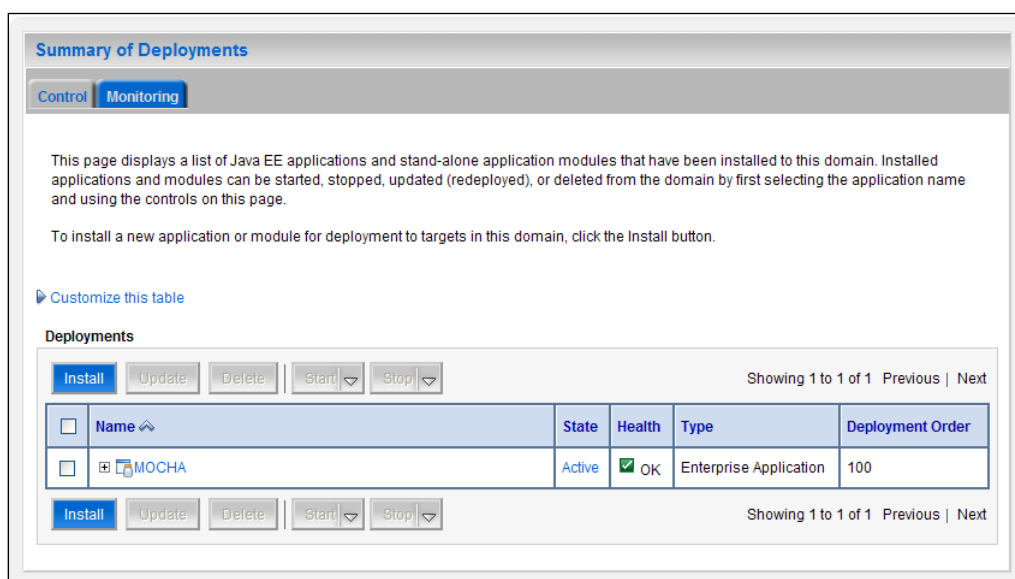
**Figure 3-14: Summary of Deployments**

24. Select the previously deployed MOCHA deployment, click **Start**, and then select **Servicing all requests** from the drop-down list box.
25. WebLogic will now display the panel **Start Application Assistant** in the right column of the console for confirmation to start servicing requests. For reference, see Figure 3-15



**Figure 3-15: Start Application Assistant**

26. Click Yes in the Start Application Assistant panel in the right column of the WebLogic console.
27. WebLogic now returns to the Summary of Deployments panel in the right column of the console. For reference, see Figure 3-16.



**Figure 3-16: Summary of Deployments – MOCHA Deployment Active**

28. Verify that the State of the MOCHA deployment is Active.

## 4 Backout Plan

The following steps detail the Backout plan of the MOCHA Server application on WebLogic application Server.

1. Un-deploy MOCHA Server 1.1.01 build (mocha-server-1.1.01.1420.ear file) as detailed in [Section 2](#).
2. Deploy MOCHA Server 1.1 build (mocha-server-1.1.00.001.ear file) as detailed in [Section 3](#).